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**Monotone generalized nonlinear contractions in partially ordered metric spaces.** (English)

Zbl 1158.54019

Fixed Point Theory Appl. 2008, Article ID 131294, 11 p. (2008).

Summary: A concept of  $g$ -monotone mapping is introduced, and some fixed and common fixed point theorems for  $g$ -non-decreasing generalized nonlinear contractions in partially ordered complete metric spaces are proved. Presented theorems are generalizations of very recent fixed point theorems due to R. P. Agarwal, M. A. El-Gebeily, and D. O'Regan [Appl. Anal. 87, No. 1, 109–116 (2008; Zbl 1140.47042)].

**MSC:**

54H25 Fixed-point and coincidence theorems (topological aspects)

Cited in **2** Reviews  
Cited in **114** Documents

**Full Text:** [DOI](#) [EuDML](#)

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